Modern Burner Unit (MBU)

Overview:

The **Modern Burner Unit (MBU)** is the replacement for the M2 gasoline burner currently used in all field feeding systems. Compatibility of the MBU with all current field feeding equipment will be achieved by maintaining the same footprint and heat transfer as the M2.

Description:

The MBU utilizes an automatic, closed circuit fueling system, which avoids spill hazards and eliminates the need to remove the burner for refueling, as with the pressurized fuel system of the M2. Employing an electronic ignition, the MBU is ignited in place, thus saving time by eliminating the pre-heat period required with the M2 and reducing the hazards associated with lighting and carrying lit burners into the kitchen. It reduces the logistical burden and safety hazards of the M2 by burning the less volatile JP-8 fuel instead of gasoline. The use of electronically controlled components also decreases the production of hazardous emissions by maintaining the correct fuel/air ratio. To eliminate the risk of electrical shock during use and maintenance, and allow direct use of vehicle power, less than 90 Watts of 28 Volt DC power is used. Compatibility with A.C. generators is achieved by providing power converters as required in each kitchen application.

The MBU can be easily installed in any of the current Army field feeding equipment systems. The Mobile Kitchen Trailer (MKT) application requires minor modifications for cabling and hardware mounting. A generator or other AC power source is required to power the MBU in most applications.

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